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JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/CTR/W.No.17/2020-21 Date: 23.09.2020

TEST REPORT ON CEMENT

Client : **Executive Engineer** , R R Nagara Division, BBMP, Bangalore.
Agency : **Sri C T Raju,** Contractor, Bangalore.
Name of Work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.
Sample ID: : Cement (Ultratech 53 grade OPC)
Sample Supplied by: : AGENCY
Date of Manufacture: : August - 2020
Date of Testing 21.09.2020 to 23.09.2020

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	330 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00%	-

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Job No.: CQCE/BBMP/CTR/W.No.17/2020-21 Date 23.09.2020

TEST REPORT ON FINE AGGREGATES (SAND)

Client **Executive Engineer ,** R R Nagara Division, BBMP, Bangalore.
Agency **Sri C T Raju,** Contractor, Bangalore.
Name of Work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.

Date of Testing 23.09.2020
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	85	8.50	8.50	91.5	90-100
2.36	109	10.90	19.40	80.6	75-100
1.18	175	17.50	36.90	63.1	55-90
600 Micron	245	24.50	61.40	38.6	35-59
300 Micron	163	16.30	77.70	22.3	8-30
150 Micron	148	14.80	92.50	7.5	0-10

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Job No.: CQCE/BBMP/CTR/W.No.17/2020-21 Date 23.09.2020

TEST REPORT ON COARSE AGGREGATES

Client Executive Engineer , R R Nagara Division, BBMP, Bangalore.
Agency Sri C T Raju, Contractor, Bangalore.
Name of Work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.
Date of Testing 23.09.2020
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : 40mm Aggregates

Total Wt. of Aggregates in gms 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	213	1.42	1.42	98.58	95-100
20	8367	55.78	57.20	42.80	30-70
10	3049	20.33	77.53	22.47	10-35
4.75	2688	17.92	95.45	4.55	0-5

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Job No.: CQCE/BBMP/CTR/W.No.17/2020-21 Date 23.09.2020

TEST REPORT ON COARSE AGGREGATES

Client **Executive Engineer ,** R R Nagara Division, BBMP, Bangalore.

Agency **Sri C T Raju,** Contractor, Bangalore.

Name of Work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.

Date of Testing 23.09.2020

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	217	4.3	4.3	95.7	95-100
10	2739	54.8	59.1	40.9	25-55
4.75	1562	31.2	90.4	9.6	0-10

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Job No.: CQCE/BBMP/CTR/W No 17/2020-21 Date 23.09.2020

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client Executive Engineer , R R Nagara Division, BBMP, Bangalore.
Agency Sri C T Raju, Contractor, Bangalore.
Name of Work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.
Date of Testing 23.09.2020
Material : Sand(Plastering) Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	24	2.40	2.40	97.6	95-100
2.36	21	2.10	4.50	95.5	95-100
1.18	36	3.60	8.10	91.9	90-100
600 Micron	85	8.50	16.60	83.4	80-100
300 Micron	243	24.30	40.90	59.1	20-65
150 Micron	473	47.30	88.20	11.8	0-15

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Job No.: CQCE/BBMP/CTR/W.No.17/2020-21 Date 23.09.2020

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client Executive Engineer , R R Nagara Division, BBMP, Bangalore.
Agency Sri C T Raju, Contractor, Bangalore.
Name of Work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.

Date of Testing 23.09.2020
Material : Sand(Masonry) Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	19	1.90	1.90	98.1	90-100
1.18	16	1.60	3.50	96.5	70-100
600 Micron	74	7.40	10.90	89.1	40-100
300 Micron	258	25.80	36.70	63.3	5-70
150 Micron	492	49.20	85.90	14.1	0-15

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Job No.: CQCE/BBMP/CTR/W.No.17/2020-21

Date 23.09.2020

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : Executive Engineer , R R Nagara Division, BBMP, Bangalore.

Agency : Sri C T Raju, Contractor, Bangalore.

Name of Work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.

Steel Dia/Length : 8mm,10mm," TMT"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test 23.09.2020

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation , percent on gauge length
1	TMT	8	0.399	509	608	1.19	17
2	TMT	10	0.616	518	626	1.21	20

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Date: 19.10.2020

Job No.: CQCE/BBMP/CTR/W.No.17/2020-21

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	**Executive Engineer ,** R R Nagara Division, BBMP, Bangalore.
Contractor	:	**Sri C T Raju,** Contractor, Bangalore.
Name of Work	:	Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	19.10.2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	81.00	0.368	2313.84	1.62	0.959	35.60	18.13	19.58	18.78	23.47
2	50.00	83.00	0.381	2337.85	1.66	0.963	34.50	17.57	18.98	18.28	22.85
3	50.00	87.00	0.407	2382.57	1.74	0.972	33.20	16.91	18.26	17.75	22.19

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Date: 19.10.2020

Job No.: CQCE/BBMP/CTR/W.No.17/2020-21

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client : **Executive Engineer ,** R R Nagara Division, BBMP, Bangalore.
Contractor : **Sri C T Raju,** Contractor, Bangalore.
Name of Work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.
No.of Sample Tested : 03
Date of Testing : 19.10.2020
Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete : M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	110.80	1.635	2319.55	1.23	0.917	109.60	17.23	18.61	17.06	21.33
2	90.00	113.60	1.701	2353.70	1.26	0.920	111.40	17.51	18.91	17.40	21.76
3	90.00	117.20	1.779	2386.02	1.30	0.925	113.40	17.83	19.25	17.80	22.25

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Date: 19.10.2020

Job No.: CQCE/BBMP/CTR/W.No.17/2020-21

KERB STONE (CORE) TEST REPORT

Client : **Executive Engineer ,** R R Nagara Division, BBMP, Bangalore.
Agency : **Sri C T Raju,** Contractor, Bangalore.
Name of Work : : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.
No.of Sample Tested : 03
Date of Testing : 19.10.2020
Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete : M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.356	2324.48	1.56	0.952	24.50	12.48	13.48	12.84	16.04
2	50.00	80.00	0.371	2361.86	1.60	0.957	25.60	13.04	14.08	13.47	16.84
3	50.00	84.00	0.394	2388.84	1.68	0.965	26.20	13.34	14.41	13.91	17.39

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Job No.: CQCE/BBMP/CTR/W.No.17/2020-21

Date: 14.10.2020

TEST REPORT ON CONCRETE CUBES

Client	**Executive Engineer** , R R Nagara Division, BBMP, Bangalore.
Agency	**Sri C T Raju,** Contractor, Bangalore.
Name of the work	: Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.10.2020	14.10.2020	8.123	256.8	11.41
2	07.10.2020	14.10.2020	8.165	268.9	11.95
3	07.10.2020	14.10.2020	8.047	272.3	12.10

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Job No: CQCE/BBMP/CTR/W.No.17/2020-21 Date: 04.11.2020

TEST REPORT ON CONCRETE CUBES

Client	Executive Engineer, R R Nagara Division, BBMP, Bangalore.
Agency	Sri C T Raju, Contractor, Bangalore.
Name of the work	: Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.10.2020	04.11.2020	8.022	378.8	16.84
2	07.10.2020	04.11.2020	8.167	386.9	17.20
3	07.10.2020	04.11.2020	8.189	395.4	17.57

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Job No.: CQCE/BBMP/CTR/W.No.17/2020-21

Date: 14.10.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer**, R R Nagara Division, BBMP, Bangalore.

Agency : **Sri C T Raju**, Contractor, Bangalore.

Name of the work : Compreshensive developiment of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV (10), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.10.2020	14.10.2020	8.187	257.3	11.44
2	07.10.2020	14.10.2020	8.013	264.9	11.77
3	07.10.2020	14.10.2020	8.169	273.5	12.16

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Job No.: CQCE/BBMP/CTR/W.No.17/2020-21

Date: 04.11.2020

TEST REPORT ON CONCRETE CUBES

Client	**Executive Engineer**, R R Nagara Division, BBMP, Bangalore.
Agency	**Sri C T Raju,** Contractor, Bangalore.
Name of the work	: Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.10.2020	04.11.2020	8.113	371.6	16.52
2	07.10.2020	04.11.2020	8.198	385.6	17.14
3	07.10.2020	04.11.2020	8.057	392.3	17.44

Note:

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail: civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

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Job No: CQCE/BBMP/CTR/W.No.17/2020-21 Date: 14.10.2020

TEST REPORT ON CONCRETE CUBES

Client: **Executive Engineer**, R R Nagara Division, BBMP, Bangalore.

Agency: **Sri C T Raju,** Contractor, Bangalore.

Name of the work: : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.

Sample ID: : Cement Concrete

Size of cubes: : 150mmx150mmx150mm

Cross Sectional Area: : 22500 mm^2

Technical Reference: : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete: : M_{15}

Compressive Strength as on: : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.10.2020	14.10.2020	8.154	262.3	11.66
2	07.10.2020	14.10.2020	8.178	278.9	12.40
3	07.10.2020	14.10.2020	8.140	282.3	12.55

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Sample ID	: Cement Concrete
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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.10.2020	04.11.2020	8.121	379.6	16.87
2	07.10.2020	04.11.2020	8.064	384.5	17.09
3	07.10.2020	04.11.2020	8.139	396.5	17.62

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Job No.: CQCE/BBMP/CTR/W.No.17/2020-21

Date: 14.10.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer**, R R Nagara Division, BBMP, Bangalore.

Agency : **Sri C T Raju,** Contractor, Bangalore.

Name of the work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.10.2020	14.10.2020	8.145	265.1	11.78
2	07.10.2020	14.10.2020	8.167	272.3	12.10
3	07.10.2020	14.10.2020	8.132	285.6	12.69

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Job No.: CQCE/BBMP/CTR/W.No.17/2020-21 Date: 04.11.2020

TEST REPORT ON CONCRETE CUBES

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Agency : **Sri C T Raju,** Contractor, Bangalore.
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Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{15}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.10.2020	04.11.2020	8.194	372.3	16.55
2	07.10.2020	04.11.2020	8.176	384.5	17.09
3	07.10.2020	04.11.2020	8.140	385.6	17.14

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Job No.: CQCE/BBMP/CTR/W.No.17/2020-21 Date: 19.10.2020

TEST REPORT ON CONCRETE CUBES

Client	**Executive Engineer**, R R Nagara Division, BBMP, Bangalore.
Agency	**Sri C T Raju,** Contractor, Bangalore.
Name of the work	: Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.10.2020	19.10.2020	8.015	266.6	11.85
2	12.10.2020	19.10.2020	8.012	274.8	12.21
3	12.10.2020	19.10.2020	8.197	283.9	12.62

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Cross Sectional Area: : 22500 mm^2

Technical Reference: : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete: : M_{15}

Compressive Strength as on: : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.10.2020	09.11.2020	8.142	373.4	16.60
2	12.10.2020	09.11.2020	8.169	386.9	17.20
3	12.10.2020	09.11.2020	8.125	392.1	17.43

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